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[Iffat H. Kazi, Howard H. Chen, Berdenia Stanley, David J. Lilja](#)

 September 2000 **Computing Surveys (CSUR)**, Volume 32 Issue 3

**Publisher:** ACM [Request Permissions](#)

 Full text available: [Pdf](#) (816.13 KB)

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This survey describes research directions in techniques to improve the p  
programming language. The standard technique for Java execution is in  
portability of programs. ...

**Keywords:** Java, Java virtual machine, bytecode-to-source translators,  
interpreters, just-in-time compilers

**2** [Pin: building customized program analysis tools with dynamic instrur](#)
[Chi-Keung Luk, Robert Cohn, Robert Muth, Harish Patil, Artur Klauser, Geo  
Reddi, Kim Hazelwood](#)

 June 2005 **PLDI '05:** Proceedings of the 2005 ACM SIGPLAN conference  
implementation

**Publisher:** ACM [Request Permissions](#)

 Full text available: [Pdf](#) (300.61 KB)

 Additional Information: [full citation](#), [abs](#)
**Bibliometrics:** Downloads (6 Weeks): 66, Downloads (12 Months): 569, Downl

Robust and powerful software instrumentation tools are essential for pro  
performance evaluation, and bug detection. To meet this need, we have  
called *Pin*. Our goals are ...

**Keywords:** dynamic compilation, instrumentation, program analysis to

Also published in:

 June 2005 **SIGPLAN Notices** Volume 40 Issue 6

**3** [LLVA: A Low-level Virtual Instruction Set Architecture](#)
[Vikram Adve, Chris Lattner, Michael Brukman, Anand Shukla, Brian Gaeke](#)

 December 2003 **MICRO 36:** Proceedings of the 36th annual IEEE/ACM Inte

**Publisher:** IEEE Computer Society

 Full text available: [Pdf](#) (196.08 KB)


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A virtual instruction set architecture (V-ISA) implemented via a process provide great flexibility to processor designers. Recent examples such as existing hardware instruction ...

#### 4 [A simplified java bytecode compilation system for resource-constrained](#)

 [Carmen Badea, Alexandru Nicolau, Alexander V. Veidenbaum](#)

September 2007 **CASES '07:** Proceedings of the 2007 international conference for embedded systems

**Publisher:** ACM

Full text available:  [Pdf](#) (439.70 KB)


Additional Information: [full citation](#), [abs](#)

**Bibliometrics:** Downloads (6 Weeks): 9, Downloads (12 Months): 62, Download



Embedded platforms are resource-constrained systems in which performance code are of critical importance. However, standard techniques such as full adaptive optimization (AO) may ...

**Keywords:** adaptive optimization, embedded systems, java virtual machine superoperators

#### 5 [Communications of the ACM: Volume 51 Issue 8](#)


 August 2008 [Communications of the ACM](#)

**Publisher:** ACM

Full text available:  [Digital Edition](#) ,  [Pdf](#) (6.85 MB) Additional Information: [full citation](#)

**Bibliometrics:** Downloads (6 Weeks): 299, Downloads (12 Months): 2192, Download

#### 6 [A dynamic binary instrumentation engine for the ARM architecture](#)

 [Kim Hazelwood, Artur Klauser](#)

October 2006 **CASES '06:** Proceedings of the 2006 international conference for embedded systems

**Publisher:** ACM

Full text available:  [Pdf](#) (455.03 KB)


Additional Information: [full citation](#), [abs](#)

**Bibliometrics:** Downloads (6 Weeks): 17, Downloads (12 Months): 99, Download

Dynamic binary instrumentation (DBI) is a powerful technique for analyzing numerous DBI frameworks have been developed for general-purpose architectures embedded architectures has been ...

**Keywords:** binary instrumentation, dynamic translation, embedded architectures

#### 7 [Dynamic metrics for java](#)

 [Bruno Dufour, Karel Driesen, Laurie Hendren, Clark Verbrugge](#)

November 2003 **OOPSLA '03:** Proceedings of the 18th annual ACM SIGPLAN systems, languages, and applications

**Publisher:** ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (222.67 KB)

Additional Information: [full citation](#), [abs](#)

**Bibliometrics:** Downloads (6 Weeks): 15, Downloads (12 Months): 148, Download

In order to perform meaningful experiments in optimizing compilation a usually rely on a suite of benchmark programs of interest to the optimiz are described as *numeric*, ...

**Keywords:** Java, dynamic metrics, execution traces, optimization, prof

Also published in:


November 2003 **SIGPLAN Notices** Volume 38 Issue 11

## 8 Statistically rigorous java performance evaluation

 Andy Georges, Dries Buytaert, Lieven Eeckhout

October 2007 **OOPSLA '07**: Proceedings of the 22nd annual ACM SIGPLAN systems and applications

**Publisher:** ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (1.63 MB)

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**Bibliometrics:** Downloads (6 Weeks): 23, Downloads (12 Months): 178, Downl

Java performance is far from being trivial to benchmark because it is afi application, its input, the virtual machine, the garbage collector, the he: run-time causes ...

**Keywords:** benchmarking, data analysis, java, methodology, statistics

Also published in:

October 2007 **SIGPLAN Notices** Volume 42 Issue 10

## 9 HPC.NET - are CLI-based Virtual Machines Suitable for High Perform

Werner Vogels

November 2003 **SC '03**: Proceedings of the 2003 ACM/IEEE conference on S

**Publisher:** IEEE Computer Society

Full text available:  [Pdf](#) (163.35 KB)

Additional Information: [full citation](#), [abs](#)

**Bibliometrics:** Downloads (6 Weeks): 5, Downloads (12 Months): 53, Downloa

The Common Language Infrastructure is a new, standardized virtual ma several platforms. In this paper we review whether this technology has community, for example by ...

## 10 LLVM: A Compilation Framework for Lifelong Program Analysis & Tr

Chris Latimer, Vikram Adve

March 2004 **CGO '04**: Proceedings of the international symposium on Coc directed and runtime optimization



**Publisher:** IEEE Computer Society

Full text available:  [Pdf](#) (256.90 KB)

Additional Information: [full citation](#), [abs](#)


**Bibliometrics:** Downloads (6 Weeks): 32, Downloads (12 Months): 190, Downl

This paper describes LLVM (Low Level Virtual Machine), a compiler frame lifelongprogram analysis and transformation for arbitrary programs, by p compilertransformations at compile-time, ...

**11** [Information systems outsourcing: a survey and analysis of the literat](#) Jens Dibbern, Tim Gales, Rudy Hirschheim, Bandula JayatilakaNovember 2004 **SIGMIS Database**, Volume 35 Issue 4**Publisher:** ACMFull text available:  Pdf (1.51 MB)Additional Information: [full citation](#), [abs](#)**Bibliometrics:** Downloads (6 Weeks): 355, Downloads (12 Months): 3208, Dov

In the last fifteen years, academic research on information systems (IS) field of outsourcing research has grown so fast that there has been scar take a collective ...



**Keywords:** determinants, literature review, outcomes, outsourcing, rel foundations

**12** [Minimizing dependencies within generic classes for faster and small](#) Dan Tsafir, Robert W. Wisniewski, David F. Bacon, Bjarne StroustrupOctober 2009 **OOPSLA '09: Proceeding of the 24th ACM SIGPLAN conferen** languages and applications**Publisher:** ACM  [Request Permissions](#)Full text available:  Pdf (604.18 KB)Additional Information: [full citation](#), [abs](#)**Bibliometrics:** Downloads (6 Weeks): 12, Downloads (12 Months): 12, Downlo

Generic classes can be used to improve performance by allowing compil compile-time polymorphism is narrower than that of runtime polymorph advocate a programming ...


**Keywords:** generalized hoisting, generics, scary assignments and initia

Also published in:

October 2009 **SIGPLAN Notices** Volume 44 Issue 10**13** [A fast, memory-efficient register allocation framework for embedded](#) Sathyanarayanan Thammanur, Santosh PandeNovember 2004 **Transactions on Programming Languages and System****Publisher:** ACM  [Request Permissions](#)Full text available:  Pdf (1.01 MB)Additional Information: [full citation](#), [abs](#)**Bibliometrics:** Downloads (6 Weeks): 4, Downloads (12 Months): 67, Downloa

In this work, we describe a "just-in-time," <i>i> usage density-based regi systems with a limited general-purpose register set wherein speed, codi concern. The main ...

**Keywords:** Code generation, compiler optimizations, compilers, dynam allocation

**14** [The ExoVM system for automatic VM and application reduction](#) Ben L. Titzer, Joshua Auerbach, David F. Bacon, Jens PalsbergJune 2007 **PLDI '07: Proceedings of the 2007 ACM SIGPLAN conference**

implementation

**Publisher:** ACM  [Request Permissions](#)

Full text available:  Pdf (510.60 KB)

Additional Information: [full citation](#), [abs](#)

**Bibliometrics:** Downloads (6 Weeks): 9, Downloads (12 Months): 64, Downloa


Embedded systems pose unique challenges to Java application develop  
these challenges is the memory footprint of both the virtual machine an  
rapidly increasing ...

**Keywords:** VM design, VM modularity, dead code elimination, embedde  
initialization, static analysis, static compilation



Also published in:

June 2007 **SIGPLAN Notices** Volume 42 Issue 6

### 15 [Communications of the ACM: Volume 52 Issue 10](#)

 October 2009 Communications of the ACM

**Publisher:** ACM


Full text available:  Digital Edition ,  Pdf (7.38 MB) Additional Information: [full citation](#)

**Bibliometrics:** Downloads (6 Weeks): 6420, Downloads (12 Months): 6420, Dc

### 16 [Design of the Java HotSpot™ client compiler for Java 6](#)

 Thomas Kotzmann, Christian Wimmer, Hanspeter Mössenböck, Thomas Ro  
May 2008 **Transactions on Architecture and Code Optimization (T**

**Publisher:** ACM  [Request Permissions](#)

Full text available:  Pdf (1.14 MB)

Additional Information: [full citation](#), [abs](#)

**Bibliometrics:** Downloads (6 Weeks): 40, Downloads (12 Months): 433, Downl

Version 6 of Sun Microsystems' Java HotSpot™ VM ships with a redesign  
that includes several research results of the last years. The client compi  
by default ...

**Keywords:** Java, compiler, deoptimization, intermediate representatio  
register allocation

### 17 [Revisiting Out-of-SSA Translation for Correctness, Code Quality and](#)

[Benoit Boissinot](#), [Alain Darté](#), [Fabrice Rastello](#), [Benoit Dupont de Dinechin](#),  
March 2009 **CGO '09: Proceedings of the 2009 International Symposium**

**Publisher:** IEEE Computer Society

Full text available:  Pdf (287.20 KB)


Additional Information: [full citation](#), [abs](#)

**Bibliometrics:** Downloads (6 Weeks): 19, Downloads (12 Months): 80, Downlo

Static single assignment (SSA) form is an intermediate program repres  
be performed with fast and easy-to-implement algorithms. However, so  
where the SSA variables ...

**Keywords:** SSA form, Compilers, JIT-compilation

**18** [Using continuous statistical machine learning to enable high-speed p](#)  
[instruction-/cycle-accurate instruction set simulators](#)

 Daniel Christopher Powell, Björn Franke

October 2009 **CODES+ ISSS '09**: Proceedings of the 7th IEEE/ACM interna  
 codesign and system synthesis

**Publisher:** ACM  [Request Permissions](#)

Full text available:  Pdf (807.00 KB)

Additional Information: [full citation](#), [abs](#)

**Bibliometrics:** Downloads (6 Weeks): 5, Downloads (12 Months): 5, Download

Functional instruction set simulators perform instruction-accurate simul  
 Unlike their slower, but cycle-accurate counterparts however, they are r  
 the higher level ...


**Keywords:** continuous statistical machine learning, instruction set sim

**19** [Application of a multi-criteria simulation optimization based DSS](#)

[A. Azadeh](#), [S. F. Ghaderi](#), [A. Dabbaghi](#), [M. Dehghanbaghi](#)

July 2007 **SCSC**: Proceedings of the 2007 summer computer simulation

**Publisher:** Society for Computer Simulation International

Full text available:  Pdf (209.58 KB)


Additional Information: [full citation](#), [abs](#)

**Bibliometrics:** Downloads (6 Weeks): 4, Downloads (12 Months): 43, Downloa

In this study we propose a decision support system for a textile dyeing,  
 simulation model itself, enables managers to find a schedule of jobs on  
 decision parameters) ...

**Keywords:** goal programming, metamodel, multi-criteria decision maki  
 factors

**20** [Online performance auditing: using hot optimizations without getting](#)

 [Jeremy Lau](#), [Matthew Arnold](#), [Michael Hind](#), [Brad Calder](#)

June 2006 **PLDI '06**: Proceedings of the 2006 ACM SIGPLAN conference  
 implementation

**Publisher:** ACM  [Request Permissions](#)

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As hardware complexity increases and virtualization is added at more la  
 performance impact of optimizations becomes increasingly difficult. Proc  
 substantial development ...

**Keywords:** Java, feedback-directed optimizations, virtual machines

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June 2006 **SIGPLAN Notices** Volume 41 Issue 6

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